# Commission on the Future of the United States Aerospace Industry Integrated CNS

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**April 30, 2002** 

## **US Aviation - The Big Picture**

#### Federal Role

•National Defense - But, 70 % Aerospace Industry Sales are Commercial.

•Enable Air Transportation - Infrastructure, Laws, Regulations, Air Traffic Services, Airport Development, Research, etc.

#### **Aerospace Industry Commission**

#### Aerospace Technology

- •Aerospace Vision (Tech)
- •Global Environmental Scan
- •Aerospace Issues/Needs

#### Aerospace Investment

- •Aerospace Vision (Business)
  - -Civ/Mil Aircraft Market
  - -Civ/Mil Space-Launch Market
- •US Industrial Base Projections
- •Resources (Workforce/\$)
- Contracting/Acquisition Policy
- •Financial/Business Concerns

#### Aerospace Global Issues

- •Internat'l Mergers/Teaming
- •Export Control Process
- Transition Opportunities
- •Tech Transition Process

#### •Aerospace Infrastructure

- •Launch & Lab Facilities
- •Air traffic Management System

#### Aerospace Human Capitol

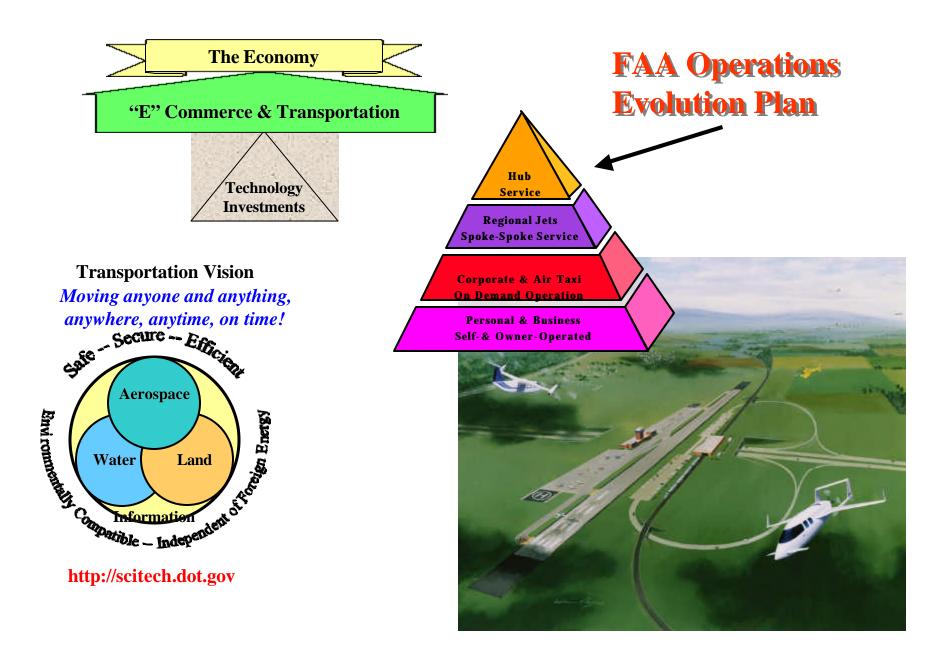
#### **Fix Current Problems**

- •Transportation Security Agency
- •PBO Executive Order Restructure FAA
- •NAS Operational Evolution FAA 10 Yr Plan For Capacity Enhancement
- •Homeland Security Aviation Policy PCC
- •DOT Reauthorization

#### **Actions for Longer Term Solutions**

- •R&D & Ops Demo Capstone, Safe Flight 21, AvStar, AvSP, SATS, etc.
- •NASA "Blueprint for the Future" What is Possible
- •NAS ASEB Aerospace Vision and S&T across NASA, FAA, DOD etc.
- **•DOD National Aerospace Plan**

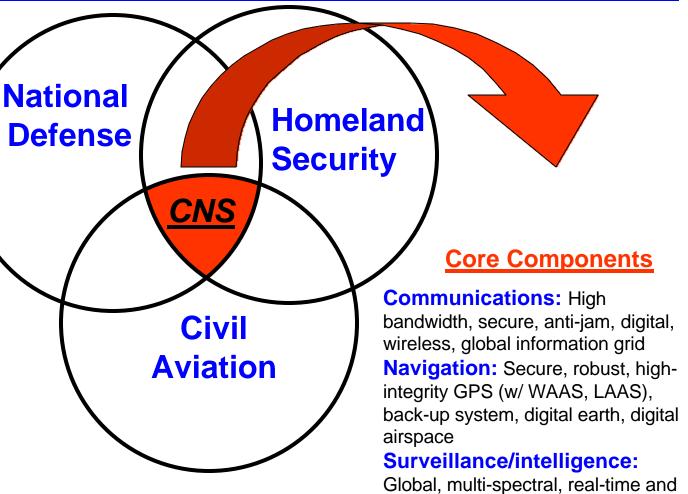
### **Aviation System Vision Is Emerging**



# The Same Technology Core Can Simultaneously Strengthen National Security and Air Transportation

#### **Common Needs**

- Secure, robust, high integrity system design
- Detection and tracking of cooperative and noncooperative vehicles
- Immediate detection of flight path deviations
- Secure and anti-jam communications
- Seamless, interoperable peacetime and wartime operations
- Increased air traffic capacity
- Precision flight operations
- Affordable basic equipment design and modernization paths
- Real-time, high-confidence weather forecasts (> 2 hours)



forecast -- weather and vehicles

# The Digital Airspace

#### **Precision Navigation**

